AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1.   (Currently Amended) A method of displaying files within a file system to a user in a semantic hierarchy, the method comprising the steps of:

mapping the files in the file system into a semantic vector space;

clustering the files within said space, wherein multiple threshold values that are settable to desired levels of granularity are defined, and said files are clustered based on said multiple threshold values;

deriving a hierarchy of plural levels of clusters from said clustering; and

providing a user an option ~~of~~ to selectively switch between displaying the files in a hierarchical format of plural levels of clusters based on said derived hierarchy, ~~or~~ and displaying the files in a hierarchical format based on locations of the files in the file system.

2.   (Original) The method according to claim 1, wherein the step of clustering the files is performed as a background routine during the operation of a computer associated with said file system.

3.   (Original) The method according to claim 2, wherein the step of clustering the files is performed in response to the creation of a new file within the file system.

4.   (Original) The method according to claim 1, wherein said files are text documents and said mapping is conducted on the basis of a language model.

5.   (Original) The method according to claim 4, wherein said mapping step comprises the steps of constructing a matrix which associates each word in the documents with a vector and associates each document with a vector.

6.   (Original) The method of claim 5, further including the step of decomposing said matrix to define the words and documents as vectors in a continuous vector space.

7.   (Original) The method of claim 5, wherein said clustering is performed by identifying documents whose vectors are within a threshold distance of one another.

8.   (Canceled)

9.   (Previously Presented) The method of claim 5 further including the step of automatically labeling the clusters based on the resulting clusters.

10.   (Original) The method of claim 9 wherein said labeling comprises selecting representative words based on the closeness of their vectors to the document vectors in a cluster.

11.   (Currently Amended) A non-transitory computer-readable medium containing a graphical user interface configured to display files belonging to a file system in a virtual file system with a semantic hierarchy of plural levels of clusters that is derived from semantic similarities of said files, clustering said files belonging to the file system based on multiple threshold values that are settable to desired levels of granularity, and determining a directory structure having plural levels of clusters based on the clustering determined from similarities between said files, wherein the graphical user interface provides a user an option ~~of~~ to selectively switch between graphically displaying the determined directory structure having plural levels of clusters ~~to be displayed~~ on a display device, ~~or~~ and displaying the files in a hierarchical format based on locations of the files in the ~~virtual~~ file system.

12.   (Canceled)

13.   (Currently Amended) The non-transitory computer-readable medium ~~graphical user interface~~ according to claim 11, wherein in the graphical user interface clustering of the files is initiated by user selection.

14. (Currently Amended) The ~~non-transitory computer-readable medium~~ ~~graphical user interface~~ according to claim 11, wherein ~~in the graphical user interface~~ clustering of the files is initiated upon creation of a new file in the file system.

15. (Currently Amended) The ~~non-transitory computer-readable medium~~ ~~graphical user interface~~ according to claim 11, wherein ~~in the graphical user interface,~~ text files are clustered utilizing a language model and non-text files are clustered utilizing rule-based techniques.

16. (Currently Amended) The ~~non-transitory computer-readable medium~~ ~~graphical user interface~~ according to claim 15, wherein ~~in the graphical user interface,~~ said language model comprises the LSA paradigm.

17. (Currently Amended) ~~Non-transitory computer~~ ~~Computer~~ readable media having stored therein computer executable code for analyzing files in a file system to determine similarities in data pertaining to their content, clustering said files ~~in the file system~~ based on multiple threshold values that are settable to desired levels of granularity, determining a directory structure having plural levels of clusters based on the clustering determined from similarities between the files, and providing a user an option ~~of~~ ~~to selectively switch between~~ displaying files in hierarchical format of plural levels of clusters based on the clustering determined from similarities between the files, ~~or~~ ~~and~~ displaying the files in a hierarchical format based on locations of the files in the file system.

18.   (Currently Amended) The <u>non-transitory</u> computer-readable media of claim 17 wherein said files are text documents, and the similarities are based upon the word content of the files.

19.   (Currently Amended) The <u>non-transitory</u> computer-readable media of claim 18 wherein said similarities are determined in accordance with a language model, and the files are clustered in accordance with said model.

20.   (Currently Amended) The <u>non-transitory</u> computer-readable media of claim 19, wherein said language model comprises the LSA paradigm.

21.   (Currently Amended) The <u>non-transitory</u> computer-readable media of claim 19, wherein said computer-executable code performs the steps of constructing a matrix which associates each word in the documents with a vector and associates each document with a vector.

22.   (Currently Amended) The <u>non-transitory</u> computer-readable media of claim 21, wherein said computer-executable code further performs step of decomposing said matrix to define the words and documents as vectors in a continuous vector space.

23.   (Currently Amended) The <u>non-transitory</u> computer-readable media of claim 22, wherein said computer-executable code performs clustering by identifying documents whose vectors are within a threshold distance of one another.

24.   (Canceled)

25.   (Currently Amended) The <u>non-transitory</u> computer-readable media of claim 19, wherein said computer-executable code performs step of automatically labeling the clusters based on the resulting clusters.

26.   (Currently Amended) The <u>non-transitory</u> computer-readable media of claim 25, wherein said labeling comprises selecting representative words based on the closeness of their vectors to the document vectors in a cluster.

27.   (Currently Amended) The <u>non-transitory</u> computer readable media according to claim 17, wherein the computer executable code performs the following steps:

clustering text files within the file system using semantic similarities;

clustering non-text files within the files system using rule-based techniques;

labeling the resulting clusters; and

displaying the files in a hierarchical format based on the resulting clusters and labels.

28.   (Currently Amended) A computer system, comprising:

a file system storing files;

a display device;

a processor for analyzing the content of files stored in said file system to map

said files into a semantic vector space, cluster the files within said space based on

multiple threshold values that are settable to desired levels of granularity, and derive

a hierarchy of plural levels of clusters from said clustering; and

a user interface which provides a user an option ~~of~~ to selectively switch

between displaying files stored in said file system in the form of said derived

hierarchy of plural levels of clusters, ~~or~~ and displaying the files in a hierarchical

format based on locations of the files in the file system.

29.   (Canceled)

30.   (Previously Presented) The computer system of claim 28, wherein said

files are text documents and said processor maps said files on the basis of a

language model.

31.   (Original) The computer system of claim 30 wherein said processor

constructs a matrix which associates each word in the documents with a vector and

associates each document with a vector.

32.   (Original) The computer system of claim 31 wherein said processor

further decomposes said matrix to define the words and documents as vectors in a

continuous vector space.

33.   (Original) The computer system of claim 31, wherein said processor clusters the files by identifying documents whose vectors are within a threshold distance of one another.

34.   (Canceled).

35.   (Previously Presented) The computer system of claim 31, wherein said processor automatically labels the clusters based on the resulting clusters.

36.   (Original) The computer system of claim 35 wherein said processor labels the clusters by selecting representative words based on the closeness of their vectors to the document vectors in a cluster.

37.   (Previously Presented) The method according to claim 1, wherein said deriving step includes organizing the clusters into a hierarchical directory structure.

38.   (Previously Presented) A method of organizing a plurality of documents in a file system, comprising:

mapping all words of the plurality of documents in the file system and the plurality of documents in a semantic vector space;

generating a plurality of clusters based on the semantic similarities of the plurality of documents and multiple threshold values that are settable to desired levels of granularity;

organizing the plurality of clusters into directories in a hierarchical format of plural levels of clusters; and

providing a user an option of displaying the plurality of documents in said hierarchical format of plural levels of clusters based on a result of clustering the plurality of documents, or displaying the documents in a hierarchical format based on locations of the documents in the file system.

39. - 47. (Canceled)

48.   (Previously Presented)   The method of claim 1, wherein the multiple threshold values are characteristic values of clusters from said clustering.

49.   (Previously Presented) The method of claim 48, wherein the characteristic values of the clusters are cluster variances of the clusters.

50.   (Currently Amended) The ~~graphical user interface~~non-transitory computer-readable medium according to claim 11, wherein the multiple threshold values are characteristic values of clusters from said clustering.

51.   (Currently Amended) The ~~graphical user interface~~non-transitory computer-readable medium according to claim 50, wherein the characteristic values of the clusters are cluster variances of the clusters.

52.   (Currently Amended)   The non-transitory computer-readable media of claim 17, wherein the multiple threshold values are characteristic values of clusters from said clustering.

53.   (Currently Amended) The non-transitory computer-readable media of claim 52, wherein the characteristic values of the clusters are cluster variances of the clusters.

54.   (Previously Presented)   The computer system of claim 28, wherein the multiple threshold values are characteristic values of clusters from said clustering.

55.   (Previously Presented) The computer system of claim 54, wherein the characteristic values of the clusters are cluster variances of the clusters.

56.   (Previously Presented)   The method of claim 38, wherein the multiple threshold values are characteristic values of clusters from said clustering.

57.   (Currently Amended) The computer method of claim 56, wherein the characteristic values of the clusters are cluster variances of the clusters.

58.   (Previously Presented) The method of claim 1, further comprising providing a user an option to reorganize the files in the file system according to the derived hierarchy.